

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	4556	channel near2 density	US-PGPUB; USPAT	ADJ	ON	2007/03/30 09:45
L2	8044	422/180,174,199,179,221,222.ccls. or 60/300,299.ccls. or 502/439,527. ccls. or 428/116.ccls.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/30 15:23
L3	66	1 and 2	US-PGPUB; USPAT	ADJ	ON	2007/03/30 09:46
L4	59	3 and honeycomb	US-PGPUB; USPAT	ADJ	ON	2007/03/30 09:49
L5	991	cpsi or channels per square inch	US-PGPUB; USPAT	ADJ	ON	2007/03/30 09:50
L6	261	5 and 2	US-PGPUB; USPAT	ADJ	ON	2007/03/30 09:50
L7	232	6 and honeycomb	US-PGPUB; USPAT	ADJ	ON	2007/03/30 09:50
L8	201	7 not 4	US-PGPUB; USPAT	ADJ	ON	2007/03/30 10:12
L9	742	5 and honeycomb	US-PGPUB; USPAT	ADJ	ON	2007/03/30 10:13
L10	215	5 near5 ("800" or "850" or "900" or "950" or "1000" or "1100" or "1200" or "1300" or "2000")	US-PGPUB; USPAT	ADJ	ON	2007/03/30 11:41
L11	168	10 and honeycomb	US-PGPUB; USPAT	ADJ	ON	2007/03/30 10:14
L12	1	"4849275".PN.	USPAT; USOCR	ADJ	ON	2007/03/30 10:51
L13	5	("20030077386"   "3797946"   "5082167"   "6616019"   "RE35063").PN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/30 11:00

## EAST Search History

L15	240	5 near5 ("800" "810" "820" "830" "840" "850" "860" "870" "880" "890" "900" "910" "920" "930" "940" "950" "960" "970" "980" "990" "1000" "1010" "1020" "1030" "1040" "1050" "1060" "1070" "1080" "1090" "1100" "1110" "1120" "1130" "1140" "1150" "1160" "1170" "1180" "1190" "1200" "1210" "1220" "1230" "1240" "1250" "1260" "1270" "1280" "1290" "1300" "1310" "1320" "1330" "1340" "1350" "1360" "1370" "1380" "1390" "1400" "1410" "1420" "1430" "1440" "1450" "1460" "1470" "1480" "1490" "1500" "1510" "1520" "1530" "1540" "1550" "1560" "1570" "1580" "1590" "1600" "1610" "1620" "1630" "1640" "1650" "1660" "1670" "1680" "1690" "1700" "1710" "1720" "1730" "1740" "1750" "1760" "1770" "1780" "1790" "1800" "1810" "1820" "1830" "1840" "1850" "1860" "1870" "1880" "1890" "1900" "1910" "1920" "1930" "1940" "1950" "1960" "1970" "1980" "1990" "2000" "2010" "2020" "2030" "2040" "2050" "2060" "2070" "2080" "2090" "2100" "2110" "2120" "2130" "2140" "2150" "2160" "2170" "2180" "2190" "2200" "2210")	US-PGPUB; USPAT	OR	ON	2007/03/30 11:31
L16	186	15 and honeycomb	US-PGPUB; USPAT	ADJ	ON	2007/03/30 11:32
L17	18	16 not 11	US-PGPUB; USPAT	ADJ	ON	2007/03/30 11:32
L18	97	10 same (thick or thickness)	US-PGPUB; USPAT	ADJ	ON	2007/03/30 11:41
L19	67	18 and honeycomb	US-PGPUB; USPAT	ADJ	ON	2007/03/30 11:41
L21	5	("5110561"   "5190732"   "5599509"   "5795658"   "6497039").PN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/30 13:32
L22	272	honeycomb same microstructure	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/30 13:33

## EAST Search History

L23	54	22 and 2	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/30 13:35
L24	7	"5902558"	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/30 13:38
L25	31	"5157010"	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/30 13:44
L26	82	microstructure with sleeve	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/30 13:55
L27	4	26 same honeycomb	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/30 13:45
L28	5	("5110561"   "5190732"   "5599509"   "5795658"   "6497039").PN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/30 13:51
L29	5	((("5110561") or ("5190732") or ("5599509") or ("5795658") or ("6497039"))).PN.	US-PGPUB; USPAT	OR	OFF	2007/03/30 13:56
L30	1061	honeycomb and microstructure	US-PGPUB; USPAT	ADJ	ON	2007/03/30 13:57
L31	54	30 and sleeve	US-PGPUB; USPAT	ADJ	ON	2007/03/30 13:57
L32	50	31 not 27	US-PGPUB; USPAT	ADJ	ON	2007/03/30 14:12
L33	151	microstructure and 2	US-PGPUB; USPAT	ADJ	ON	2007/03/30 14:14
L34	1	"9604215"	EPO	ADJ	ON	2007/03/30 14:15
L35	0	"0855936"	EPO	ADJ	ON	2007/03/30 14:15
L36	0	"855936"	EPO	ADJ	ON	2007/03/30 14:15
L37	17	"855"	EPO	ADJ	ON	2007/03/30 14:16
L38	0	EP0855936	EPO	ADJ	ON	2007/03/30 14:16
L39	0	"0855936"\$	EPO	ADJ	ON	2007/03/30 14:16
L40	0	WO9715393	EPO	ADJ	ON	2007/03/30 14:17
L41	1	"9715393"	EPO	ADJ	ON	2007/03/30 14:52
L42	41	braz\$ with sleeve	EPO	ADJ	ON	2007/03/30 14:52
L43	0	42 and 2	EPO	ADJ	ON	2007/03/30 14:52
L44	2317	braz\$	EPO	ADJ	ON	2007/03/30 14:53
L45	1948	braz\$ with sleeve	US-PGPUB; USPAT	ADJ	ON	2007/03/30 14:53

## EAST Search History

L46	14	45 and 2	US-PGPUB; USPAT	ADJ	ON	2007/03/30 14:53
L47	10	("5902558") or ("6497039") or ("6634542") or ("6040064") or ("5272875") or ("5079210") or ("4818746") or ("5157010") or ("5795658") or ("6286353")).PN.	US-PGPUB; USPAT	OR	OFF	2007/03/30 15:25
S1	7	("6040064") or ("5272875") or ("5079210") or ("4818746") or ("5157010") or ("5795658") or ("6286353")).PN.	US-PGPUB; USPAT	OR	OFF	2007/03/28 13:41
S2	37	"08001"	US-PGPUB; USPAT	ADJ	ON	2007/03/22 15:12
S3	3	("4381590") or ("4521947") or ("6634542")).PN.	US-PGPUB; USPAT	OR	OFF	2007/03/22 15:37
S4	7	("6040064") or ("5272875") or ("5079210") or ("4818746") or ("5157010") or ("5795658") or ("6286353")).PN.	US-PGPUB; USPAT	OR	OFF	2007/03/22 16:07
S5	33099	honeycomb	US-PGPUB; USPAT	ADJ	ON	2007/03/22 16:07
S6	1058464	spring or damper	US-PGPUB; USPAT	ADJ	ON	2007/03/22 16:08
S7	851	422/168.ccls.	US-PGPUB; USPAT	ADJ	ON	2007/03/22 16:10
S8	3180	422/168,177,180.ccls.	US-PGPUB; USPAT	ADJ	ON	2007/03/22 16:14
S9	1136	S5 same S6	US-PGPUB; USPAT	ADJ	ON	2007/03/22 16:16
S10	24	S9 and S8	US-PGPUB; USPAT	ADJ	ON	2007/03/22 16:26
S11	73301	"422".clas.	US-PGPUB; USPAT	ADJ	ON	2007/03/22 16:26
S12	1643270	spring or damper or flexible	US-PGPUB; USPAT	ADJ	ON	2007/03/22 16:26
S13	490	S5 and S11 and S12	US-PGPUB; USPAT	ADJ	ON	2007/03/22 16:27
S14	218	S13 and catalytic converter	US-PGPUB; USPAT	ADJ	ON	2007/03/22 16:43
S15	534	422/179.ccls.	US-PGPUB; USPAT	ADJ	ON	2007/03/22 16:43
S16	270	honeycomb and S15	US-PGPUB; USPAT	ADJ	ON	2007/03/22 16:45
S17	51	S16 and S6	US-PGPUB; USPAT	ADJ	ON	2007/03/22 16:46

## EAST Search History

S19	316769	dampening or ((protect or protection) near4 (damage or cracking or damaging)) or shock	US-PGPUB; USPAT	ADJ	ON	2007/03/27 08:02
S20	33116	honeycomb	US-PGPUB; USPAT	ADJ	ON	2007/03/27 08:02
S21	0	S19 with2	US-PGPUB; USPAT	ADJ	ON	2007/03/27 08:02
S22	806	S19 with S20	US-PGPUB; USPAT	ADJ	ON	2007/03/27 08:02
S23	14126	catalytic converter	US-PGPUB; USPAT	ADJ	ON	2007/03/27 08:02
S24	79	S22 same S23	US-PGPUB; USPAT	ADJ	ON	2007/03/27 08:08
S25	975645	honeycomb or substrate	US-PGPUB; USPAT	ADJ	ON	2007/03/27 08:09
S26	12227	suspended near4 (spring or metal)	US-PGPUB; USPAT	ADJ	ON	2007/03/27 08:09
S27	466	S25 with S26	US-PGPUB; USPAT	ADJ	ON	2007/03/27 08:09
S28	1	S27 and S23	US-PGPUB; USPAT	ADJ	ON	2007/03/27 08:42
S30	9	("4795615"   "4847966"   "4948774"   "5002923"   "5026611"   "5084361"   "5272875"   "5346675"   "5916530").PN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/27 11:11
S31	1431014	protected or protection or protect	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/27 11:20
S32	494	S31 with S20	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/27 11:20
S33	803745	crack or fracture or rupture or breach or split	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/27 11:23
S34	6	S33 with S32	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/27 11:26
S35	598038	casing	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/27 11:27
S36	4706	S25 with S35	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/27 11:28
S37	1644160	spring or damper or flexible	US-PGPUB; USPAT	ADJ	ON	2007/03/27 11:28

## EAST Search History

S38	511	S36 same S37	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/27 11:29
S39	10	S38 and S23	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/27 11:29
S40	1894815	space or spacing	US-PGPUB; USPAT	ADJ	ON	2007/03/27 12:11
S41	534442	annular	US-PGPUB; USPAT	ADJ	ON	2007/03/27 12:11
S42	62246	S41 near2 S40	US-PGPUB; USPAT	ADJ	ON	2007/03/27 12:12
S43	24	S42 with S20	US-PGPUB; USPAT	ADJ	ON	2007/03/27 12:24
S44	534	422/179.ccls.	US-PGPUB; USPAT	ADJ	ON	2007/03/27 12:49
S45	76	sleeve and S44	US-PGPUB; USPAT	ADJ	ON	2007/03/27 12:25
S46	458	S44 not S45	US-PGPUB; USPAT	ADJ	ON	2007/03/27 15:53
S47	355	S44 not S45	USPAT	ADJ	ON	2007/03/27 16:10
S48	103	S44 not S45	US-PGPUB	ADJ	ON	2007/03/27 15:54
S49	3	Rolf Bruck.in.	USPAT	ADJ	ON	2007/03/27 16:10
S50	3	Rolf Bruck.in.	US-PGPUB; USPAT	ADJ	ON	2007/03/27 16:11
S51	626	Bruck.in.	US-PGPUB; USPAT	ADJ	ON	2007/03/27 16:12
S52	123	S51 and S23	US-PGPUB; USPAT	ADJ	ON	2007/03/27 16:12
S53	108073	multiple near3 (layer or sleeve)	US-PGPUB; USPAT	ADJ	ON	2007/03/28 07:19
S56	534	422/179.ccls.	US-PGPUB; USPAT	ADJ	ON	2007/03/28 07:17
S58	565903	(multiple or two or inner or outer) near3 (layer or sleeve)	US-PGPUB; USPAT	ADJ	ON	2007/03/28 07:21
S61	57058	(inner near4 layer) same (outer near4 layer)	US-PGPUB; USPAT	ADJ	ON	2007/03/28 07:27
S63	66011	corrugate or corrugated	US-PGPUB; USPAT	ADJ	ON	2007/03/28 07:27
S64	648	S61 same S63	US-PGPUB; USPAT	ADJ	ON	2007/03/28 07:28
S65	2	S64 and S56	US-PGPUB; USPAT	ADJ	ON	2007/03/28 07:30

## EAST Search History

S66	34	(technical or technically) (joined or join or joining)	US-PGPUB; USPAT	ADJ	ON	2007/03/28 07:31
S67	2	S66 and S56	US-PGPUB; USPAT	ADJ	ON	2007/03/28 07:30
S68	12	("4397817"   "4795615"   "4818746"   "4832998"   "4923109"   "4928485"   "4948774"   "4985212"   "5079210"   "5174968"   "5194968"   "5272875").PN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/28 07:47
S69	5	("5486338").URPN.	USPAT	ADJ	ON	2007/03/28 07:41
S70	4	("3853485"   "4985212"   "5098763"   "5486338").PN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/28 08:43
S72	6	("5079210"   "5116581"   "5190732"   "5486338"   "5494881"   "5665669").PN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/28 08:50
S73	8041	422/180,174,199,179,221,222.ccls. or 60/300,299.ccls. or 502/439,527. ccls. or 428/116.ccls.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/28 08:52
S74	36829	honeycomb	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/28 08:52
S76	208	S61 and S73	US-PGPUB; USPAT	ADJ	ON	2007/03/28 08:53
S77	135	S74 and S76	US-PGPUB; USPAT	ADJ	ON	2007/03/28 08:53
S78	120	S77 not S56	US-PGPUB; USPAT	ADJ	ON	2007/03/28 08:54
S79	10	("5094821").URPN.	USPAT	ADJ	ON	2007/03/28 09:08
S80	818233	spring or damper	USPAT	ADJ	ON	2007/03/28 09:09
S81	762	S74 same S80	USPAT	ADJ	ON	2007/03/28 09:09
S82	68	S81 and S73	USPAT	ADJ	ON	2007/03/28 09:09
S83	55	S82 not S56	USPAT	ADJ	ON	2007/03/28 09:09
S84	15	("3937617"   "4115071"   "4142864"   "4161509"   "4344922"   "4347219"   "4928485"   "4976929"   "5063029"   "5079210"   "5080953"   "5177961"   "5194719"   "5202548"   "5366700").PN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/28 09:12
S85	10	("5526462").URPN.	USPAT	ADJ	ON	2007/03/28 09:20
S86	404	honeycomb same sleeve	US-PGPUB; USPAT	ADJ	ON	2007/03/28 09:20
S87	50	S86 and S73	US-PGPUB; USPAT	ADJ	ON	2007/03/28 09:20

## EAST Search History

S88	47	S87 not S83	US-PGPUB; USPAT	ADJ	ON	2007/03/28 09:20
S92	37346	outer near3 (sleeve or jacket) and inner near3 (sleeve or jacket)	US-PGPUB; USPAT	ADJ	ON	2007/03/28 11:57
S93	61	S92 and S73	US-PGPUB; USPAT	ADJ	ON	2007/03/28 12:10
S94	53	S93 not S88	US-PGPUB; USPAT	ADJ	ON	2007/03/28 11:57
S95	1	("5468384").PN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/28 12:19
S97	4	"6040064"	US-PGPUB; USPAT	ADJ	ON	2007/03/28 12:28
S98	31547	two near3 sleeve	US-PGPUB; USPAT	ADJ	ON	2007/03/28 12:29
S99	29	S98 and S73	US-PGPUB; USPAT	ADJ	ON	2007/03/28 12:30
S100	12340	((55/385.3) or (55/DIG.30) or (55/486-489) or (55/523) or (422/177) or (422/179) or (422/180) or (60/299) or (60/300) or (427/376.6) or (427/376.7) or (96/134) or (96/135) or (96/154) or (210/483-492)).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/03/28 12:31
S101	56	S98 and S100	US-PGPUB; USPAT	ADJ	ON	2007/03/28 12:32
S102	187	"37432"	US-PGPUB; USPAT; JPO	ADJ	ON	2007/03/28 13:41
S103	3	"99/37432"	US-PGPUB; USPAT; JPO	ADJ	ON	2007/03/28 13:41
S104	10	("5526462").URPN.	USPAT	ADJ	ON	2007/03/28 14:04
S105	15	("3937617"   "4115071"   "4142864"   "4161509"   "4344922"   "4347219"   "4928485"   "4976929"   "5063029"   "5079210"   "5080953"   "5177961"   "5194719"   "5202548"   "5366700").PN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/28 14:07
S106	22	("5177961").URPN.	USPAT	ADJ	ON	2007/03/28 14:08
S107	1	10/472761	US-PGPUB; USPAT	ADJ	ON	2007/03/28 15:41
S108	1	"4976991".pn.	US-PGPUB; USPAT	ADJ	ON	2007/03/29 07:34

## EAST Search History

S10 9	4	(("6090187") or ("5757660") or ("5489319") or ("5458673")).PN.	US-PGPUB; USPAT	OR	OFF	2007/03/30 09:45
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